1077-AD-286   **Arthur T. Benjamin*** (`benjamin@hmc.edu`), Math Department, Harvey Mudd College, 301 Platt Blvd, Claremont, CA 91711. *Counting on Students: Combinatorial Proofs with Undergraduates.*

Some of my favorite combinatorial proofs have been discovered with undergraduates. We'll present clever counting arguments and beautiful bijections involving Fibonacci numbers, squares, cubes, binomial coefficients, and Ramsey numbers. Sum-thing fun for everyone! (Received August 18, 2011)